| L           | Hits           | Search Text   | DB                             | Time stamp                   |
|-------------|----------------|---|--------------------------------|------------------------------|
| Number<br>1 | 569            | 522/170.ccls.   | USPAT;                         | 2003/01/27                   |
| 2           | 185621         | ("n-vinyl-2-pyrrolidone"<br>  "N-vinylcaprolactam") (acryloyl adj             | US-PGPUB<br>USPAT;<br>US-PGPUB | 16:47<br>2003/01/27<br>16:52 |
|             | <u> </u><br> - | morpholine) \$4acrylamide \$4acrylate   |                                | 10.02                        |
|             |                | (\$4acrylated adj polyol) (vinyl adj<br>polyol) (vinyl near polyol)           |                                |                              |
| ł           |                | (ethylenically adj unsaturated near polyol)                                   |                                |                              |
| 4           | 3053           | ("n-vinyl-2-pyrrolidone"  | USPAT;<br>US-PGPUB             | 2003/01/27                   |
| 3           | 85514          | "N-vinylcaprolactam")<br>("n-vinyl-2-pyrrolidone"                             | USPAT;                         | 2003/01/27                   |
| •           |                | "N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide              | US-PGPUB                       | 16:52                        |
| 5           | 1775           | glycerol near diacrylate 4-hydroxybutyl<br>adj acrylate 2-hydroxyethyl adj    | USPAT;<br>US-PGPUB             | 2003/01/27                   |
|             | 207            | methacryalte  |                                |                              |
| 9           | 387            | 522/170.ccls. and<br>  (("n-vinyl-2-pyrrolidone"                              | USPAT;<br>US-PGPUB             | 2003/01/27<br>16:53          |
|             |                | "N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide \$4acrylate  |                                |                              |
|             |                | (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)              |                                |                              |
|             |                | (ethylenically adj unsaturated near   |                                |                              |
| 6           | 2832           | polyol)) "n,n-dimethylacrylamide"   | USPAT;                         | 2003/01/27                   |
| 11          | 341496         | adhesive adhesives  | US-PGPUB<br>USPAT;             | 16:55<br>2003/01/27          |
| 7           | 1962           | free adj radical same photoinitiator  | US-PGPUB<br>USPAT;             | 16:55<br>2003/01/27          |
| 8           | 30779          | \$4acrylamide   | US-PGPUB<br>EPO; JPO;          | 16:57<br>2003/01/27          |
|             | ]              | _   | DERWENT                        | 16:58                        |
| 13          | 55             | (522/170.ccls. and<br>  (("n-vinyl-2-pyrrolidone"                             | USPAT;<br>US-PGPUB             | 2003/01/27<br>16:58          |
|             |                | "N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide \$4acrylate  |                                |                              |
|             |                | (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)              |                                |                              |
|             |                | (ethylenically adj unsaturated near   | 1                              | i<br>                        |
| 14          | 42             | polyol))) and cationic adj photoinitiator (522/170.ccls. and                  | USPAT;                         | 2003/01/27                   |
|             |                | (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj                 | US-PGPUB                       | 16:59                        |
|             |                | morpholine) \$4acrylamide \$4acrylate<br>(\$4acrylated adj polyol) (vinyl adj | ļ                              |                              |
|             |                | polyol) (vinyl near polyol)   |                                |                              |
|             |                | (ethylenically adj unsaturated near polyol))) and cationic adj initiator      |                                | 0000 (00 (00                 |
| 15          | 30             | (522/170.ccls. and (("n-vinyl-2-pyrrolidone"                                  | USPAT;<br>US-PGPUB             | 2003/01/27<br>16:59          |
|             |                | "N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide \$4acrylate  |                                |                              |
| }           |                | (\$4acrylated adj polyol) (vinyl adj  |                                |                              |
|             | +              | polyol) (vinyl near polyol) (ethylenically adj unsaturated near               | 1                              |                              |
| 16          | 6              | polyol))) and cationic adj catalyst<br>  (522/170.ccls. and                   | USPAT;                         | 2003/01/27                   |
|             |                | (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj                 | US-PGPUB                       | 16:59                        |
|             |                | morpholine) \$4acrylamide \$4acrylate   |                                |                              |
|             |                | (\$4acrylated adj polyol) (vinyl adj<br>polyol) (vinyl near polyol)           |                                |                              |
|             |                | (ethylenically adj unsaturated near polyol))) and cationic adj photocatalyst  |                                |                              |

| 18 | 7 - 54   | //500/170  |          |             |
|----|----------|--|----------|-------------|
| 18 | 94       | (  | USPAT;   | 2003/01/27  |
|    |          | (("n-vinyl-2-pyrrolidone"                            | US-PGPUB | 17:00       |
|    |          | "N-vinylcaprolactam") (acryloyl adj                  |          |             |
|    |          | morpholine) \$4acrylamide \$4acrylate                |          |             |
|    |          | (\$4acrylated adj polyol) (vinyl adj                 |          |             |
| Ì  |          | polyol) (vinyl near polyol)                          |          | 1           |
|    | 1        | (ethylenically adj unsaturated near                  |          |             |
|    | Ì        | polyol))) and (free adj radical same                 |          |             |
| 19 |          | photoinitiator)                                      | 1        |             |
| 19 | 0        | 522/170.ccls. and \$4acrylamide                      | USPAT;   | 2003/01/27  |
| 20 | 104      | //500/170  | US-PGPUB | 16:59       |
| 20 | 104      | ( ( · = - / - · · · · · · · · · · · · · · · · ·      | USPAT;   | 2003/01/27  |
|    |          | (("n-vinyl-2-pyrrolidone"                            | US-PGPUB | 17:00       |
|    |          | "N-vinylcaprolactam") (acryloyl adj                  | ļ        |             |
|    |          | morpholine) \$4acrylamide \$4acrylate                |          |             |
|    |          | (\$4acrylated adj polyol) (vinyl adj                 |          |             |
|    |          | polyol) (vinyl near polyol)                          |          |             |
| Ì  |          | (ethylenically adj unsaturated near                  |          |             |
|    |          | polyol))) and cationic adj                           |          |             |
|    |          | photoinitiator) ((522/170.ccls. and                  |          |             |
|    |          | (("n-vinyl-2-pyrrolidone"                            |          | 1           |
|    |          | "N-vinylcaprolactam") (acryloyl adj                  |          |             |
|    |          | morpholine) \$4acrylamide \$4acrylate                |          |             |
|    |          | (\$4acrylated adj polyol) (vinyl adj                 | 1        |             |
| 1  | }        | polyol) (vinyl near polyol)                          |          |             |
|    |          | (ethylenically adj unsaturated near                  |          |             |
|    |          | polyol))) and cationic adj initiator)                |          |             |
| 1  |          | ((522/170.ccls. and                                  |          |             |
|    |          | (("n-vinyl-2-pyrrolidone"                            |          |             |
|    |          | "N-vinylcaprolactam") (acryloyl adj                  |          |             |
|    | l .      | morpholine) \$4acrylamide \$4acrylate                | 1        |             |
|    |          | (\$4acrylated adj polyol) (vinyl adj                 |          |             |
| -  |          | polyol) (vinyl near polyol)                          |          |             |
|    |          | (ethylenically adj unsaturated near                  | ļ        | ]           |
|    |          | polyol))) and cationic adj catalyst)                 |          |             |
|    |          | ((522/170.ccls. and                                  |          |             |
| ]  |          | (("n-vinyl-2-pyrrolidone"                            |          |             |
|    |          | "N-vinylcaprolactam") (acryloyl adj                  |          | ]           |
|    |          | morpholine) \$4acrylamide \$4acrylate                |          |             |
| ĺ  |          | (\$4acrylated adj polyol) (vinyl adj                 |          |             |
|    |          | polyol) (vinyl near polyol)                          |          | 1           |
|    |          | (ethylenically adj unsaturated near                  |          |             |
|    | <b> </b> | <pre>polyol))) and cationic adj photocatalyst)</pre> |          | ]           |
| 17 | 3        | 522/170.ccls. and                                    | USPAT;   | 2003/01/27  |
|    |          | "n,n-dimethylacrylamide"                             | US-PGPUB | 17:01       |
| 12 | 26       | 522/170.ccls. and (glycerol near                     | USPAT;   | 2003/01/27  |
|    |          | diacrylate 4-hydroxybutyl adj acrylate               | US-PGPUB | 17:02       |
|    |          | 2-hydroxyethyl adj methacryalte)                     |          |             |
| 10 | 14       | 522/170.ccls. and                                    | USPAT;   | 2003/01/27  |
| ļ  |          | (("n-vinyl-2-pyrrolidone"                            | US-PGPUB | 17:06       |
|    |          | "N-vinylcaprolactam"))                               | 55 10101 | 1 - 7 - 0 0 |
|    |          |  | L        | L           |

| (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and (free adj radical same photoinitiator)) not ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (vinyl near polyol) ((ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj                              | 1 | 51   ((522/170.ccls. and    | USPAT;   | 2003/01/27  |
|--|---|-----------------------------|----------|-------------|
| "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and (free adj radical same photoinitiator)) not (((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj | - | -   ' ' '                   |          |             |
| morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) and (free adj radical same photoinitiator)) not (((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  | ĺ |                             | 35 13132 | 1 2 7 1 2 3 |
| (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and (free adj radical same photoinitiator)) not (((\$522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((\$22/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  |   |                             |          |             |
| polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and (free adj radical same photoinitiator)) not (((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$7acryloylated adj ansaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  |   |                             |          |             |
| (ethylenically adj unsaturated near polyol))) and (free adj radical same photoinitiator)) not (((522/170.ccls. and (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)   (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)   (ethylenically adj unsaturated near polyol)) (and cationic adj initiator)   ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)   (ethylenically adj unsaturated near polyol)) (vinyl near polyol)   (ethylenically adj unsaturated near polyol)) (vinyl near polyol)   (ethylenically adj unsaturated near polyol)) (vinyl near polyol)   (ethylenically adj unsaturated near polyol))) and cationic adj catalyst)   ((522/170.ccls. and   (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj  |   |                             |          | •           |
| polyol))) and (free adj radical same photoinitiator)) not (((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated (\$4acrylated (\$4acrylated (\$74acrylated (\$74acrylated (\$77accls. and ("n-vinyl-2-pyrrolidone")))) (vinyl near polyol) (vinyl adj polyol) (vinyl near polyol) (cethylenically adj unsaturated near polyol)) (cethylenically adj unsaturated near polyol)) (cethylenically adj unsaturated near polyol)) (cethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | į |                             |          | (           |
| photoinitiator)) not (((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylated near polyol)) (inyl near polyol) ("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  |   |                             |          |             |
| (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) (vinyl near polyol) ((cthylenically adj unsaturated near polyol)) (vinyl near polyol) ((thylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | ł |                             | Ţ        | {           |
| "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   |   |                             |          |             |
| morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  | l |                             |          |             |
| <pre>(\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"    "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate    (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)    (ethylenically adj unsaturated near polyol))) and cationic adj initiator)    ((522/170.ccls. and    (("n-vinyl-2-pyrrolidone"    "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate    (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol)    (ethylenically adj unsaturated near polyol))) and cationic adj catalyst)    ((522/170.ccls. and    (("n-vinyl-2-pyrrolidone"    "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj</pre>   |   |                             |          |             |
| polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylated ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   |   |                             | Ĭ        |             |
| <pre>(ethylenically adj unsaturated near polyol))) and cationic adj photoinitiator) ((522/170.ccls. and   (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj   morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj   polyol) (vinyl near polyol)   (ethylenically adj unsaturated near   polyol))) and cationic adj initiator)   ((522/170.ccls. and   (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj   morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj   polyol) (vinyl near polyol)   (ethylenically adj unsaturated near   polyol))) and cationic adj catalyst)   ((522/170.ccls. and   (("n-vinyl-2-pyrrolidone"   "N-vinylcaprolactam") (acryloyl adj   morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj   morpholine) \$4acrylamide \$4acrylate   (\$4acrylated adj polyol) (vinyl adj</pre>   |   |                             |          |             |
| polyol))) and cationic adj photoinitiator) ((522/170.ccls. and   |   |                             | 1        |             |
| photoinitiator) ((522/170.ccls. and  |   |                             |          | ]           |
| (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  | * |                             |          | İ           |
| "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol)))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | Ĭ |                             | 1        |             |
| morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  | İ | 1 ' ' 4 4 4                 |          |             |
| <pre>(\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj</pre>   | ľ |                             |          | )           |
| polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | 1 |                             |          |             |
| <pre>(ethylenically adj unsaturated near polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone"    "N-vinylcaprolactam") (acryloyl adj    morpholine) \$4acrylamide \$4acrylate    (\$4acrylated adj polyol) (vinyl adj    polyol) (vinyl near polyol)    (ethylenically adj unsaturated near    polyol))) and cationic adj catalyst)    ((522/170.ccls. and    (("n-vinyl-2-pyrrolidone"    "N-vinylcaprolactam") (acryloyl adj    morpholine) \$4acrylamide \$4acrylate    (\$4acrylated adj polyol) (vinyl adj</pre>   | ľ |                             | }        | )           |
| polyol))) and cationic adj initiator) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | 1 |                             |          |             |
| ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | ľ | 1 '                         | 1        | 1           |
| (("n-vinyl-2-pyrrolidone"  "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  | İ |                             |          |             |
| "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   | 1 | 1 ' '                       |          | 1           |
| morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   |   |                             |          |             |
| <pre>(\$4acrylated adj polyol) (vinyl adj polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj</pre>  | 1 |                             |          |             |
| polyol) (vinyl near polyol) (ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  |   |                             |          |             |
| <pre>(ethylenically adj unsaturated near polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj</pre>   |   |                             | 1        | 1           |
| polyol))) and cationic adj catalyst) ((522/170.ccls. and (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj  |   |                             | ]        |             |
| ((522/170.ccls. and<br>(("n-vinyl-2-pyrrolidone"<br>"N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide \$4acrylate<br>(\$4acrylated adj polyol) (vinyl adj   | 1 |                             |          | 1           |
| (("n-vinyl-2-pyrrolidone" "N-vinylcaprolactam") (acryloyl adj morpholine) \$4acrylamide \$4acrylate (\$4acrylated adj polyol) (vinyl adj   |   |                             |          |             |
| "N-vinylcaprolactam") (acryloyl adj<br>morpholine) \$4acrylamide \$4acrylate<br>(\$4acrylated adj polyol) (vinyl adj   |   |                             | 1        | 1           |
| morpholine) \$4acrylamide \$4acrylate<br>(\$4acrylated adj polyol) (vinyl adj  | İ |                             |          |             |
| (\$4acrylated adj polyol) (vinyl adj   |   |                             | {        | 1           |
|  |   |                             | 1        |             |
| I DOLVOLI (VIDVI DEAT DOLVOLI I I  | ł | polyol) (vinyl near polyol) | }        | 1           |
| (ethylenically adj unsaturated near  |   |                             |          | 1           |
| polyol))) and cationic adj   | 1 |                             | }        | 1           |
| photocatalyst))  |   |                             | 1        |             |

| L      | Hits     | Search Text   | DB                 | Time stamp          |
|--------|----------|---|--------------------|---------------------|
| Number |          |   |                    | 12                  |
| 1      | 191296   | epoxy epoxies epoxide epoxides polyepox\$4  | USPAT;             | 2003/01/27          |
| 5      | 2097     | diepox\$4   | US-PGPUB           | 15:25               |
| 3      | 2097     | \$4acrylate near hydroxy  | USPAT;             | 2003/01/27          |
| 6      | 3695     | "n-vinyl pyrrolidone"   | US-PGPUB           | 15:26               |
|        | 1 3095   | n-vinyi pyrrolidone   | USPAT;             | 2003/01/27          |
| 2      | 3053     | "n-vinyl-2-pyrrolidone"   | US-PGPUB           | 15:53               |
| 1      |          | "N-vinylcaprolactam"  | USPAT;<br>US-PGPUB | 2003/01/27<br>15:28 |
| 3      | 300      | acryloyl adj morpholine   | USPAT;             | 2003/01/27          |
| İ      |          | 1 1   | US-PGPUB           | 15:28               |
| 4      | 84369    | \$4acrylamide   | USPAT;             | 2003/01/27          |
| 1_     |          |   | US-PGPUB           | 15:30               |
| 7      | 83       | 522/136.ccls.   | USPAT;             | 2003/01/27          |
|        |          |   | US-PGPUB           | 15:53               |
| 8      | 76       | 522/141.ccls.   | USPAT;             | 2003/01/27          |
| 9      | 1 22     | 500/106   | US-PGPUB           | 15:53               |
| ] =    | 33       | 522/136.ccls. and (epoxy epoxies epoxide  | USPAT;             | 2003/01/27          |
| 10     | 36       | epoxides polyepox\$4 diepox\$4) 522/141.ccls. and (epoxy epoxies epoxide            | US-PGPUB           | 15:54               |
|        |          | epoxides polyepox\$4 diepox\$4)   | USPAT;             | 2003/01/27          |
| 11     | 2        | (522/136.ccls. and (epoxy epoxies epoxide   | US-PGPUB           | 15:54               |
|        |          | epoxides polyepox\$4 diepox\$4)) and  | USPAT;<br>US-PGPUB | 2003/01/27<br>15:54 |
|        | 1        | "n-vinyl pyrrolidone"   | OD FGFUD           | 15.51               |
| 12     | 4        | (522/136.ccls. and (epoxy epoxies epoxide   | USPAT;             | 2003/01/27          |
| 1      |          | epoxides polyepox\$4 diepox\$4)) and  | US-PGPUB           | 15:54               |
|        |          | ("n-vinyl-2-pyrrolidone"  |                    | 1 2010.             |
|        |          | "N-vinylcaprolactam")   |                    |                     |
| 13     | 0        | (522/136.ccls. and (epoxy epoxies epoxide   | USPAT;             | 2003/01/27          |
| 1      |          | epoxides polyepox\$4 diepox\$4)) and  | US-PGPUB           | 15:54               |
| 14     | 19       | (acryloyl adj morpholine)   |                    | 1                   |
| 1 + 3  | 19       | (522/136.ccls. and (epoxy epoxies epoxide epoxides polyepox\$4 diepox\$4)) and      | USPAT;             | 2003/01/27          |
|        |          | \$4acrylamide   | US-PGPUB           | 15:54               |
| 15     | 19       | ((522/136.ccls. and (epoxy epoxies  | USPAT;             | 2003/01/27          |
| 1      |          | epoxide epoxides polyepox\$4 diepox\$4))  | US-PGPUB           | 16:03               |
|        |          | and "n-vinyl pyrrolidone")  | 05 10105           | 1 10.03             |
|        |          | ((522/136.ccls. and (epoxy epoxies  |                    |                     |
|        |          | epoxide epoxides polyepox\$4 diepox\$4))  |                    |                     |
| f      | ! !      | and ("n-vinyl-2-pyrrolidone"  |                    |                     |
|        |          | "N-vinylcaprolactam")) ((522/136.ccls.  |                    |                     |
|        | 1        | and (epoxy epoxies epoxide epoxides   |                    |                     |
| 16     | 36       | polyepox\$4 diepox\$4)) and \$4acrylamide) 522/141.ccls. and (epoxy epoxies epoxide | Hanr-              | 0000 (05 (55        |
|        | 1 30     | epoxides polyepox\$4 diepox\$4)   | USPAT;             | 2003/01/27          |
| 17     | 5        | (522/141.ccls. and (epoxy epoxies epoxide   | US-PGPUB           | 16:03               |
|        |          | epoxides polyepox\$4 diepox\$4)) and  | USPAT;<br>US-PGPUB | 2003/01/27          |
| 1      |          | (\$4acrylate near hydroxy)  | 20 10100           | 10.00               |
| 18     | 31       | (522/141.ccls. and (epoxy epoxies epoxide   | USPAT;             | 2003/01/27          |
|        | ]        | epoxides polyepox\$4 diepox\$4)) not  | US-PGPUB           | 16:09               |
|        |          | ((522/141.ccls. and (epoxy epoxies  | i                  |                     |
|        |          | epoxide epoxides polyepox\$4 diepox\$4))  |                    |                     |
| 19     | 14       | and (\$4acrylate near hydroxy))   |                    |                     |
| 1 4 9  | 14       | (522/136.ccls. and (epoxy epoxies epoxide   | USPAT;             | 2003/01/27          |
|        |          | epoxides polyepox\$4 diepox\$4)) not (((522/136.ccls. and (epoxy epoxies            | US-PGPUB           | 16:09               |
|        |          | epoxide epoxides polyepox\$4 diepox\$4))  |                    |                     |
|        |          | and "n-vinyl pyrrolidone")  | ļ                  |                     |
|        |          | ((522/136.ccls. and (epoxy epoxies  | Ì                  |                     |
|        |          | epoxide epoxides polyepox\$4 diepox\$4))  |                    |                     |
|        |          | and ("n-vinyl-2-pyrrolidone"  | •                  |                     |
|        |          | "N-vinylcaprolactam")) ((522/136.ccls.  |                    |                     |
|        |          | and (epoxy epoxies epoxide epoxides   |                    |                     |
|        | <u> </u> | polyepox\$4 diepox\$4)) and \$4acrylamide))   |                    |                     |